



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**D5159-045**  
**Job Sheet 202308**



**Part No:** D5159-045

**Job Qty:** 5 pcs

**Part Name:** Seat Rib Assembly



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 10/24/19

**Job Tracking No:**

**Due Date:** 11/5/19

**Created By:** Marie Lajeunesse

**Type:** Stock

**Description:**

**Note:** DWG REV A IPP REV:A 14.10.02 NEW ISSUE DD VERF:JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | DAS Sign-off               |
|-------|-----------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------------------------|
|       |                             |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                            |
| 110   | Small Fab - 1               | 5 pcs | 11/5/19    |          | 0.00      | 3.03    | Small Fab - 1         |           | 58 OCT 29 2019<br>P.L.S.   |
|       |                             |       |            |          |           |         | Small Fab - 2         |           |                            |
|       |                             |       |            |          |           |         | Small Fab - 3         |           |                            |
|       |                             |       |            |          |           |         | Small Fab - 4         |           |                            |
|       |                             |       |            |          |           |         | Small Fab - 5         |           |                            |
|       |                             |       |            |          |           |         | Small Fab - 6         |           |                            |
|       |                             |       |            |          |           |         | Small Fab - 7         |           |                            |
|       |                             |       |            |          |           |         | Small Fab - 8         |           |                            |
| 120   | QC 5                        | 5 pcs | 11/5/19    |          | 0.00      | 0.00    | QC 5 - 10             |           | DAS 40 NOV 04 2019<br>9-88 |
|       |                             |       |            |          |           |         | QC 5 - 12             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 17             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 18             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 19             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 22             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 24             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 3              |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 43             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 49             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 51             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 58             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 68             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 9              |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 50             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 30             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 40             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 61             |           |                            |
|       |                             |       |            |          |           |         | QC 5 - 81             |           |                            |
| 130   | Packaging 3-1 - Stock - B4B | 5 pcs | 11/5/19    |          | 0.00      | 0.00    | Packaging 3 - 1 - B4B |           |                            |
|       |                             |       |            |          |           |         | Packaging 3 - 2 - B4B |           |                            |
|       |                             |       |            |          |           |         | Packaging 3 - 3 - B4B |           |                            |
|       |                             |       |            |          |           |         | Packaging 3 - 4 - B4B |           |                            |

Plex 10/24/19 10:54 AM Dart.lajeunesse.marie

|  |  |  |  |                        |       |         |           |                 |             |
|--|--|--|--|------------------------|-------|---------|-----------|-----------------|-------------|
|  |  |  |  | Packaging 3 - 5 - B4B  |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 6 - B4B  |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 7 - B4B  |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 8 - B4B  |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 9 - B4B  |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 10 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 11 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 12 - B4B | 02    |         |           |                 |             |
|  |  |  |  | Packaging 3 - 13 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 14 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 15 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 16 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 17 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 18 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 19 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 20 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 21 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 22 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 23 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 24 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 25 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 26 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 27 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 28 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 29 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 30 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 31 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 32 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 33 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 34 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 35 - B4B |       |         |           |                 |             |
|  |  |  |  | Packaging 3 - 36 - B4B |       |         |           |                 |             |
|  |  |  |  | 140 QC 21 - SA         | 5 pcs | 11/5/19 | 0.00 0.00 | QC 21 - SA - 21 |             |
|  |  |  |  |                        |       |         |           | QC 21 - SA - 70 | D/S 21      |
|  |  |  |  |                        |       |         |           | QC 21 - SA - 53 | NOV 05 2019 |

NOV 05 2019

## Part Op 110 - small Fab

Descriptions: **120** - QC5- Inspect part completeness to step on W/O  
**130** - Identify as per dwg & Stock Location: W/1001  
**140** - QC21- Final Inspection - Work Order Release

## Job BOM

| Part / Item | Component Name | Quantity     | Operation         | Container       |
|-------------|----------------|--------------|-------------------|-----------------|
| D5159-3     | Seat Rib       | 5 pcs (1 ea) | 110-Small Fab - 1 | 5181385 5227148 |
| D5160-3     | Shim           | 5 pcs (1 ea) | 110-Small Fab - 1 | 5208292         |
| MS20601M4W4 | Rivet          | 15 Ea (3 ea) | 110-Small Fab - 1 | 5163251 522718  |

## Job Allocations

| Operation         | Component Part | Required | Inventory | Allocated |
|-------------------|----------------|----------|-----------|-----------|
| 110-Small Fab - 1 | D5159-3        | 5        | 6         | 0         |
|                   | D5160-3        | 5        | 26        | 0         |
|                   | MS20601M4W4    | 15       | 19        | 0         |

## Part Specifications

Specifications could not be found.

Plex 10/24/19 10:54 AM Dart.lajeunesse.marie

Entered: \_\_\_\_\_ Date: \_\_\_\_\_

# WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐



|                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|--------------|--|-----------------|---------------|------------------|------------------|---------|-----------------------|---------------|-------------------|----------|-----------|-----------------|---------|--------|----------------------|------|--------|------------------------------|---------------------------------|--------------------|-------------------|---------------|-------------|-----------------|---------|------------|--------------|----------------|--|
| Job: _____<br>Part No. _____                                                                                                                                                                                                                                                                                                                                                        |                                 | <b>DISPOSITION</b><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   | <b>DEPARTMENT/PROCESS</b><br>Skid-tube <input type="checkbox"/> Cross tube <input type="checkbox"/> Eng. (Non-AW) <input type="checkbox"/><br>Machining <input type="checkbox"/> Small Fab <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/><br>Large Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/><br>Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input type="checkbox"/> |  |             |  | MRB (QSI042) |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                        |                                 | Sequence #: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | QTY Affected : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Disposition |  | Completed By |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | Lead hand / Supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| _____                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | QC / QA Coordinator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| <b>Root Cause</b><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |                                 | <b>FAULT CATEGORY</b><br><table border="1"> <tr> <td>Pressure/Forced</td> <td>Contamination</td> <td>Power Loss/Surge</td> <td>Positioned Wrong</td> </tr> <tr> <td>Bending</td> <td>Misaligned/off center</td> <td>Folio/Program</td> <td>Outside Tolerance</td> </tr> <tr> <td>Crushing</td> <td>BOM/Route</td> <td>Grain Direction</td> <td>Drawing</td> </tr> <tr> <td>Cracks</td> <td>Broken/Damage/Defect</td> <td>Weld</td> <td>Finish</td> </tr> <tr> <td>Crimp/Kink/Ripple/Wave/Twist</td> <td>Incomplete/Unclear Instructions</td> <td>Wrong Stock Pulled</td> <td>Part Lost/Missing</td> </tr> <tr> <td>Marks/Chatter</td> <td>Drill Holes</td> <td>Out of Sequence</td> <td>Misread</td> </tr> <tr> <td>Mislabeled</td> <td>Fit/Function</td> <td>Off-set/Set-up</td> <td></td> </tr> </table> |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  | Pressure/Forced | Contamination | Power Loss/Surge | Positioned Wrong | Bending | Misaligned/off center | Folio/Program | Outside Tolerance | Crushing | BOM/Route | Grain Direction | Drawing | Cracks | Broken/Damage/Defect | Weld | Finish | Crimp/Kink/Ripple/Wave/Twist | Incomplete/Unclear Instructions | Wrong Stock Pulled | Part Lost/Missing | Marks/Chatter | Drill Holes | Out of Sequence | Misread | Mislabeled | Fit/Function | Off-set/Set-up |  |
| Pressure/Forced                                                                                                                                                                                                                                                                                                                                                                     | Contamination                   | Power Loss/Surge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Positioned Wrong  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Bending                                                                                                                                                                                                                                                                                                                                                                             | Misaligned/off center           | Folio/Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Outside Tolerance |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Crushing                                                                                                                                                                                                                                                                                                                                                                            | BOM/Route                       | Grain Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drawing           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Cracks                                                                                                                                                                                                                                                                                                                                                                              | Broken/Damage/Defect            | Weld                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Finish            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Crimp/Kink/Ripple/Wave/Twist                                                                                                                                                                                                                                                                                                                                                        | Incomplete/Unclear Instructions | Wrong Stock Pulled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Part Lost/Missing |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Marks/Chatter                                                                                                                                                                                                                                                                                                                                                                       | Drill Holes                     | Out of Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Misread           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Mislabeled                                                                                                                                                                                                                                                                                                                                                                          | Fit/Function                    | Off-set/Set-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                      |                                 | _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |             |  |              |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |